

ABSTRACT

A fuel injector, in particular a fuel injector protruding directly into a combustion chamber of an internal combustion engine, includes an energizable actuator, a valve-closure member able to be moved by the actuator, a secure valve seat, with which the valve-closure member cooperates to open and close the valve, a fuel outlet formed in a downstream spray-discharge region and by at least one outlet opening arranged downstream from valve seat, and a dead volume formed downstream from valve seat and upstream from the spray-discharge region having at least one outlet opening. A device for accumulating combustion chamber gas is provided in the valve-closure member in the form of a blind hole having direct access to the dead volume.